

Lumiplas® LD7550

Polycarbonate

LG Chem Ltd.

Message:

Description

Light diffusion

Application

(LED) Lamp Cover, Signboard, Lighting decoration of electronic device

General Information	
Features	Good Light Diffusion
Uses	Lighting Applications
	Electrical/Electronic Applications
	Illumination diffuser
	Lighting device
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	61.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 100	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	2260	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 6.40 mm)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	780	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	130	°C	ASTM D648
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	80.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94

0.800 mm	V-2	UL 94	
1.60 mm	V-2	UL 94	
Additional Information	Nominal Value	Unit	Test Method
Transparency (1.00 mm)	57	%	JIS K7361
Minimum Moisture Content	0.020	%	
Injection	Nominal Value	Unit	
Drying Temperature	100 - 200	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	260 - 280	°C	
Middle Temperature	280 - 300	°C	
Front Temperature	290 - 310	°C	
Nozzle Temperature	290 - 310	°C	
Processing (Melt) Temp	300 - 320	°C	
Mold Temperature	80.0 - 120	°C	
Back Pressure	0.981 - 3.92	MPa	
Screw Speed	40 - 70	rpm	
Extrusion	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Cylinder Zone 1 Temp.	260 - 280	°C	
Cylinder Zone 2 Temp.	270 - 300	°C	
Cylinder Zone 3 Temp.	270 - 300	°C	
Cylinder Zone 4 Temp.	270 - 300	°C	
Adapter Temperature	280 - 300	°C	
Melt Temperature	300 - 320	°C	
Die Temperature	260 - 295	°C	
Extrusion instructions			
Minimum Moisture Content: 0.02%Roll Stack Temperature - Top: 120-150°CRoll Stack Temperature - Middle: 120-150°CRoll Stack Temperature - Bottom: 120-150°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	15 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

